RAB DESIGN

SKY2S-LED
LED Area light

Direct Pole Mount

Surface Mount

Post Top Mount

The SKY2S-LED series are performance area light with selectable features ideal for a wide range of applications including commercial and retail parking lots, car dealerships, and roadway lighting.

IDEAL APPLICATIONS

✓ Car Dealerships   ✓ Parking Lots   ✓ Courtyards

SPECIFICATIONS

	SKY2S-LED80A40	SKY2S-LED150A100
PERFORMANCE		
Light Output	10000*/7500/5000 lm (Lumen Selectable)	18700*/15000/12500 lm (Lumen Selectable)
Efficacy	125 lm/W	
CCT	4000/5000K (CCT Selectable)*, 3000K	
Beam Distribution	Symmetrical (Type V)* Wide Asymmetrical (Type IV) Elliptical Horizontal (Type II) Elliptical Vertical (EH Rotated 90 Deg)	
LED Lifetime (L70)	>100,000 Hrs	
CRI	80	
B-U-G	B4-U0-G3	
ELECTRICAL		
Wattage	80W*/60W/40W	150W*/120W/100W
Voltage	120-347V	
Surge Protection	10kV External Standard as per UL1449	
Power Factor	0.95	
THD	6.8%	
LED Driver Specs	cULus certified per UL 8750; complies to FCC Part 15, ANSI C63.4, Class B	
Supply Cord	600V, STW (5x18 AWG)	

CONSTRUCTION	
Housing	Die-cast Aluminum
Lens	Semi-frosted polycarbonate
Paint Finish	Weather and corrosion resistant polyester powder coat finish

AMBIENT OPERATING TEMPERATURE
-40℃ to 45℃ (-40°F to 113°F)

MOUNTING
Twin Arm (Post Top for 3" Tenon), Direct Pole Mount (Round or Square Pole), Surface Mount (Canopy/Garage)

CERTIFICATIONS
cETLus certified as per UL1598 & CSA C22.2 NO.250.0:21
DLC Premium

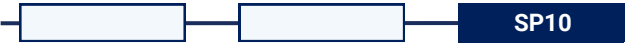| CONTROLS |
|---|
| 0-10V Dimming (Dim to Off) |
| Twist lock Photocell, 3PIN, 7PIN, |
| PCLS (Photocell, CCT, Lumen Select), DHFS (Microwave Motion Sensor), BC (Bluetooth Controlled) |

*Standard Configuration
Default Setting: Highest lumen, 4000K
Note: All reported values were tested at 277V and 4000K and shown for the highest lumen setting.

CONTROLLED

Lumen Adjustable · 120-347V · CCT 4K/5K · IP65 RATED · 5 YEAR WARRANTY · DLC LISTED PREMIUM · ETL Listed c US

ORDERING GUIDE

SKY2S		H				DIM

Fixture	Wattage	Voltage	Colour Temp.	Beam Distribution	Finish	Dimming
	LED80A40	H - 120-347V*	VK - Colour Selectable (4000K/5000K)*	SD - Symmetrical*	BLK - Black*	DIM - 0-10V Dimming
	LED150A100		3K - 3000K	WA - Wide Asymmetrical	CST- Custom Finish	
				EH - Elliptical Horizontal		
				EV - Elliptical Vertical		

		SP10

Smart Controls	Mounting	Surge Protection
Blank*	PT2A - Post Top Mount with Twin Arm*	SP10 - 10kV Surge Protection
PC - Photocontrol		
PCLS - Photocell CCT Lumen Sensor	PLM - Pole Mount Arm for Round or Square Poles	
3PIN - 3 PIN Receptacle	SM - Surface Mount	
7PIN - 7 PIN Receptacle		
DHFS - Dimming High Frequency Motion Sensor		
BC - Bluetooth Controlled		

*Standard Configuration

STOCK CODES	
083900	SKY2S-LED150A100-H-VK-SD-BLK-DIM-PT2A-SP10
083905	SKY2S-LED80A40-H-VK-SD-BLK-DIM-PT2A-SP10

ACCESSORIES SOLD SEPARATELY		
083541	Cut off Shield BLK (HCO)	

ADDITIONAL DETAILS

MAX AMPERAGE DRAW (A)					
	120V	208V	240V	277V	347V
SKY2S-LED80A40	0.73	0.42	0.37	0.32	0.25
SKY2S-LED150A100	1.38	0.79	0.69	0.60	0.48

LUMEN MAINTENANCE		
L90	L80	L70
48,000hrs	> 100,000hrs	> 100,000hrs

Note: Life hours are derived from IESNA LM-80 testing report and projected per IESNA TM-21 calculations.

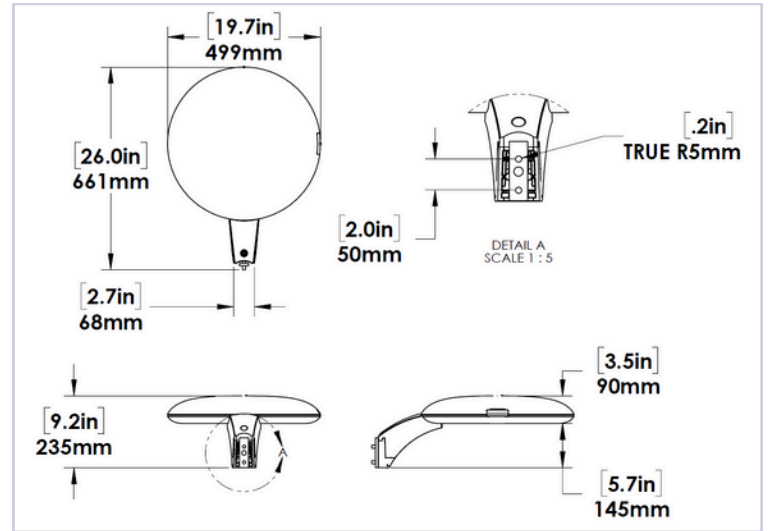| EPA & Weight		
Model	EPA	Weight
SKY2S - PT2A	1.06 ft²	11.8kg (26lbs)
SKY2S - PLM	0.81 ft²	11.3kg (25lbs)

DIMENSIONS

POST TOP MOUNT WITH TWIN ARM (PT2A)

[19.7in]
Ø 500mm

[3.5in]
90mm

[20.8in]
528mm

[18.1in]
460mm

ID [3.125in]
MOUNTS TO 3" TENON

DIRECT POLE MOUNT (PLM)

[19.7in]
499mm

[26.0in]
661mm

[2.0in]
50mm

[.2in]
TRUE R5mm

DETAIL A
SCALE 1 : 5

[2.7in]
68mm

[9.2in]
235mm

[3.5in]
90mm

[5.7in]
145mm

SURFACE MOUNT (SM)

[7.1in]
180mm

[9.5in]
242mm

[.7in]
19mm

[4.3in]
109mm

[19.7in]
500mm
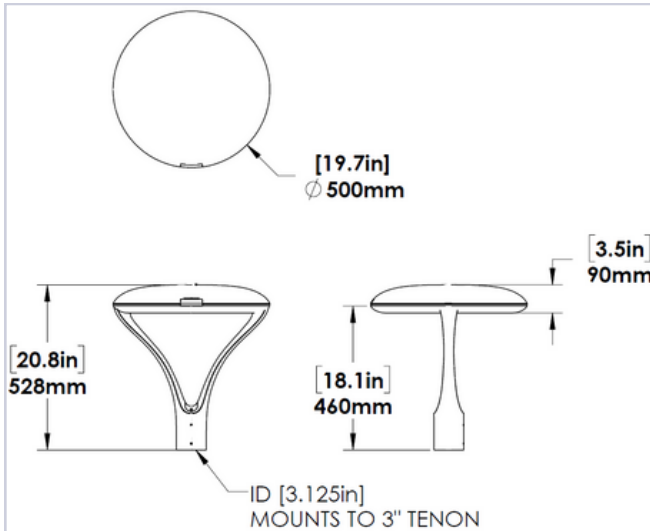
[3.5in]
90mm
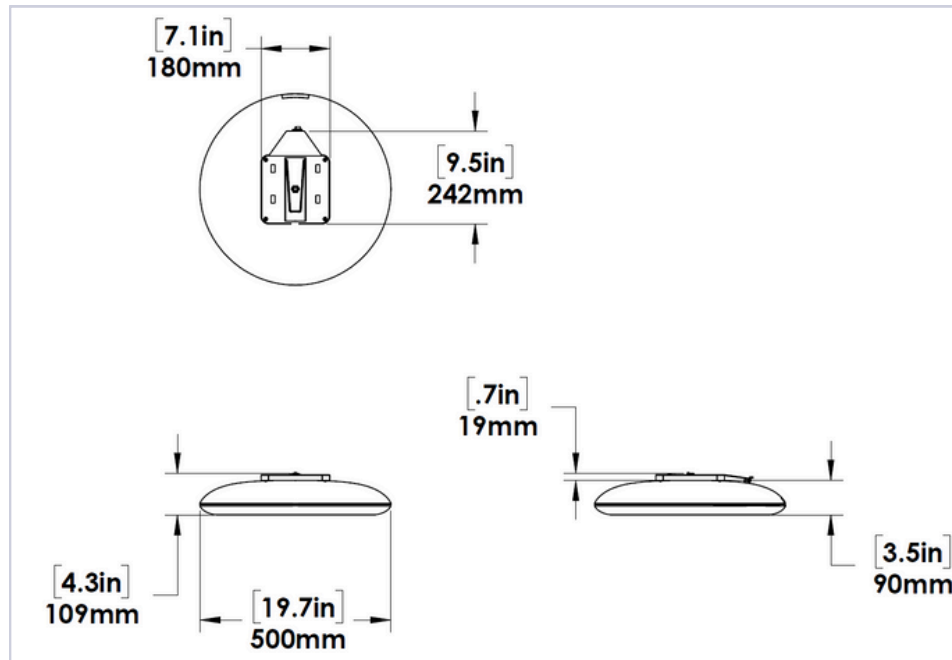
PHOTOMETRIC PLOTS

SKY2S-LED80A40-H-VK-SD-BLK-DIM-PT2A-SP10 (80W 120V 4K) MOUNTED AT 20 FEET

LUMENS 9487.1   MAX CALCULATED VALUE 3.16 Fc
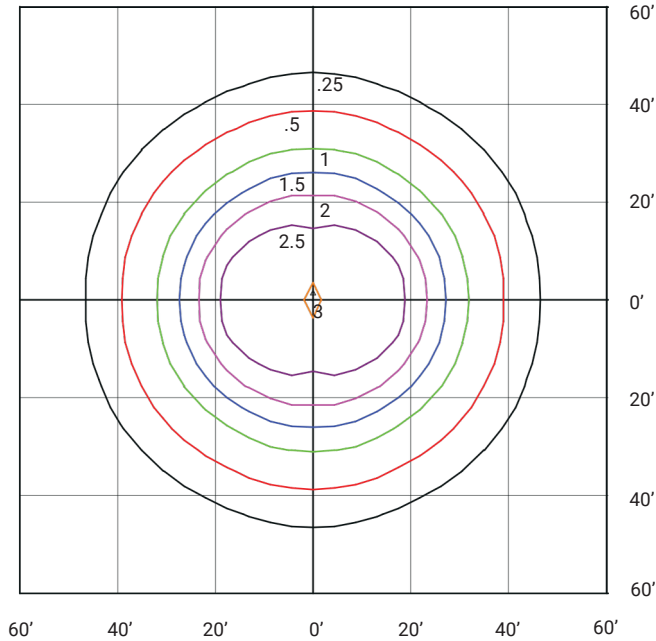
SKY2S-LED80A40-H-VK-WA-BLK-DIM-PT2A-SP10 (80W 120V 4K) MOUNTED AT 20 FEET

LUMENS 9183.5   MAX CALCULATED VALUE 5.50 Fc
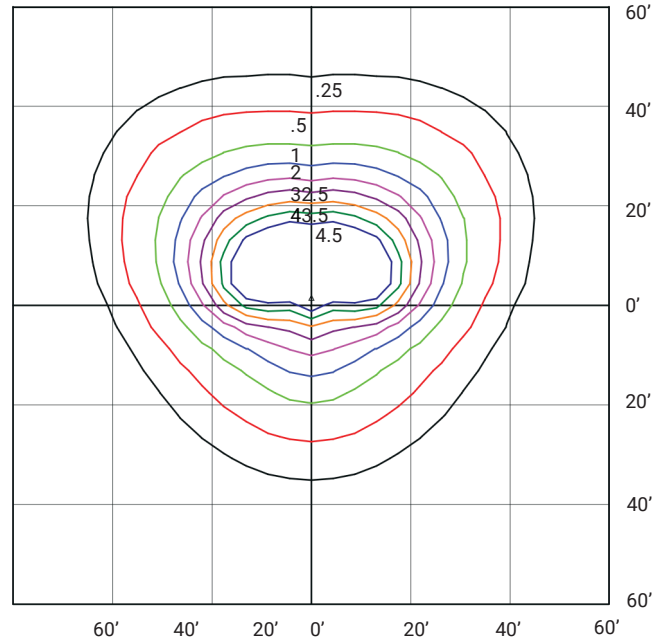
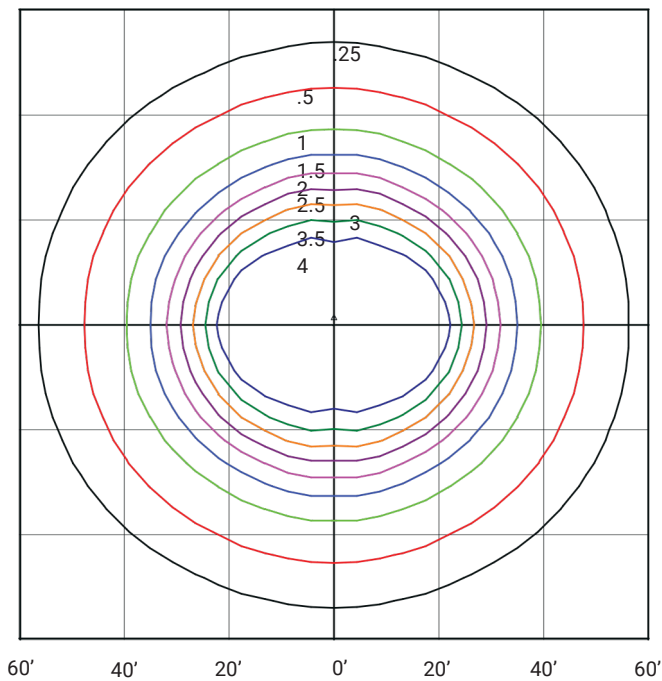### SKY2S-LED80A40-H-VK-EH-BLK-DIM-PT2A-SP10 (80W 120V 4K) MOUNTED AT 20 FEET

LUMENS 10763   MAX CALCULATED VALUE 3.64 Fc
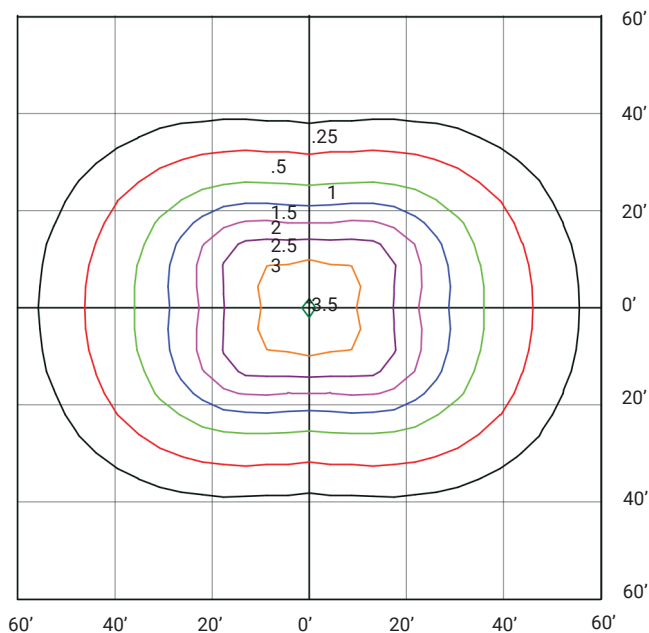
SKY2S-LED80A40-H-VK-EV-BLK-DIM-PT2A-SP10 (80W 120V 4K) MOUNTED AT 20 FEET

LUMENS 11073   MAX CALCULATED VALUE 3.91 Fc
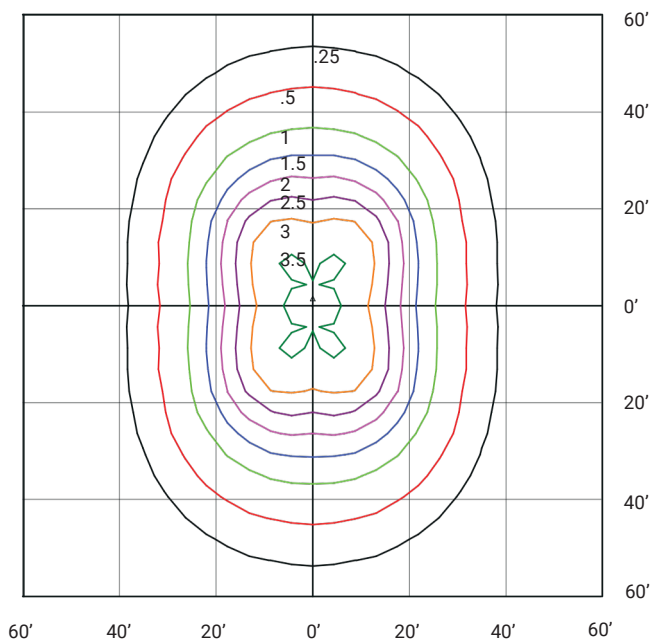
SKY2S-LED150A100-H-VK-SD-BLK-DIM-PT2A-SP10 (150W 120V 4K) MOUNTED AT 20 FEET
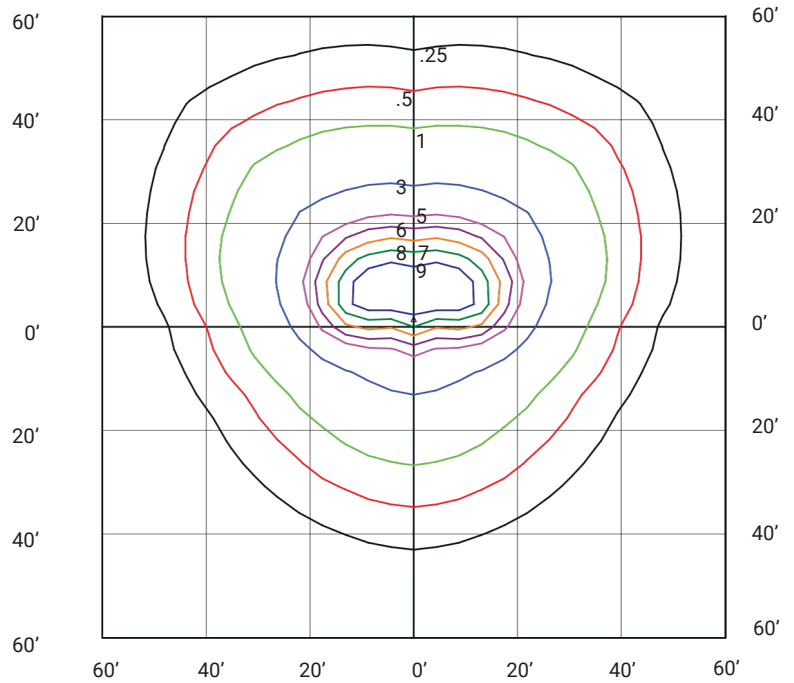
LUMENS 17362   MAX CALCULATED VALUE 5.65Fc

SKY2S-LED150A100-H-VK-WA-BLK-DIM-PT2A-SP10 (150W 120V 4K) MOUNTED AT 20 FEET

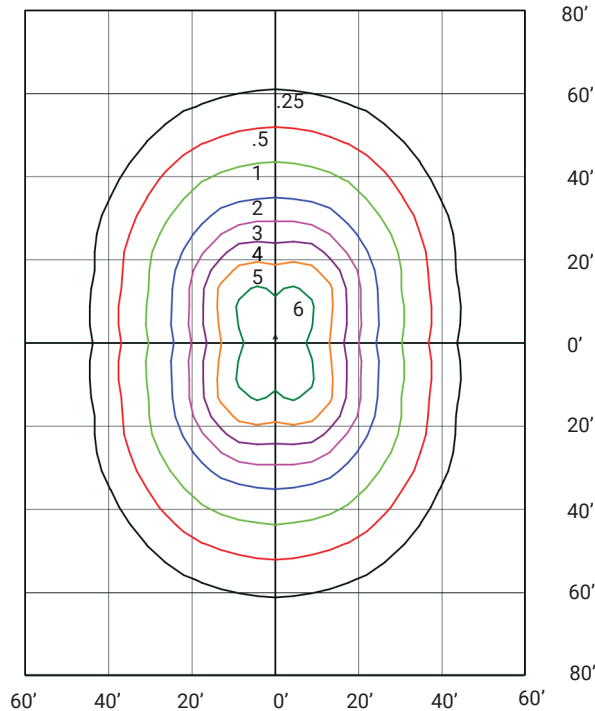LUMENS 17620   MAX CALCULATED VALUE 10.14Fc

SKY2S-LED150A100-H-VK-EV-BLK-DIM-PT2A-SP10 (150W 120V 4K) MOUNTED AT 20 FEET
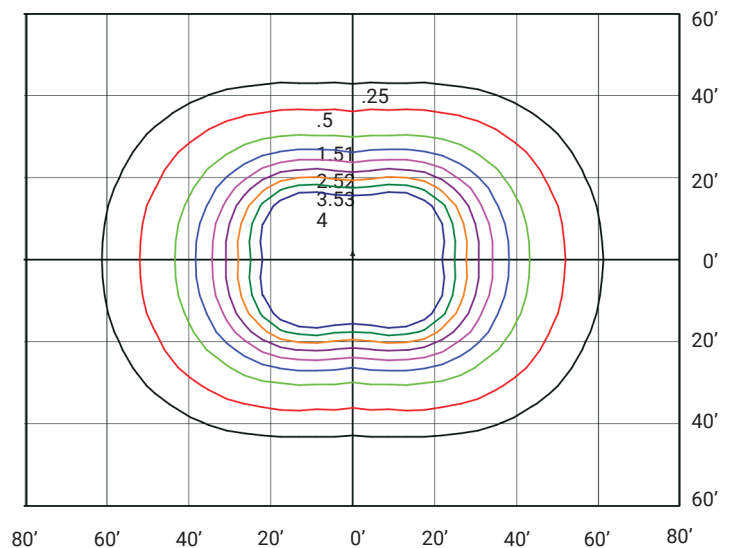
LUMENS 19512   MAX CALCULATED VALUE 6.89 Fc

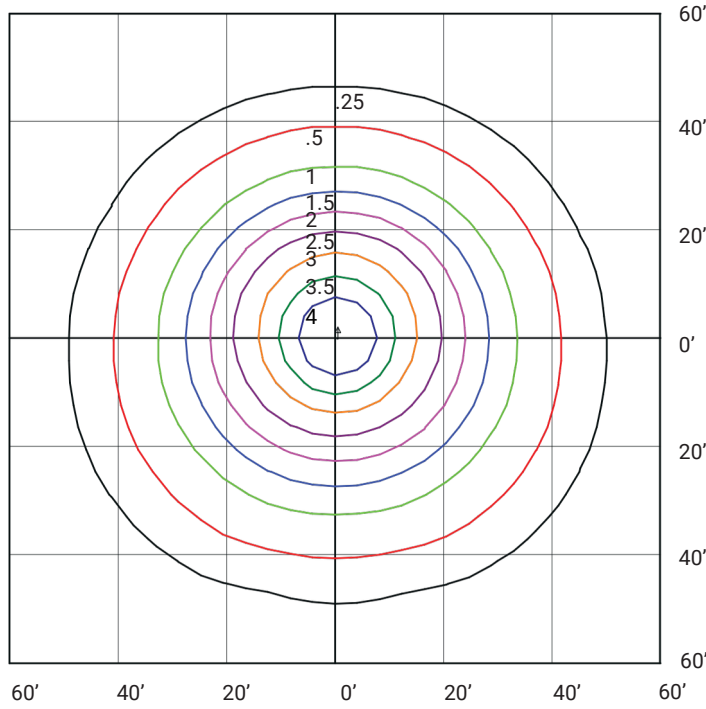### SKY2S-LED150A100-H-VK-EH-BLK-DIM-PT2A-SP10 (150W 120V 4K) MOUNTED AT 20 FEET

LUMENS 17853   MAX CALCULATED VALUE 6.29Fc

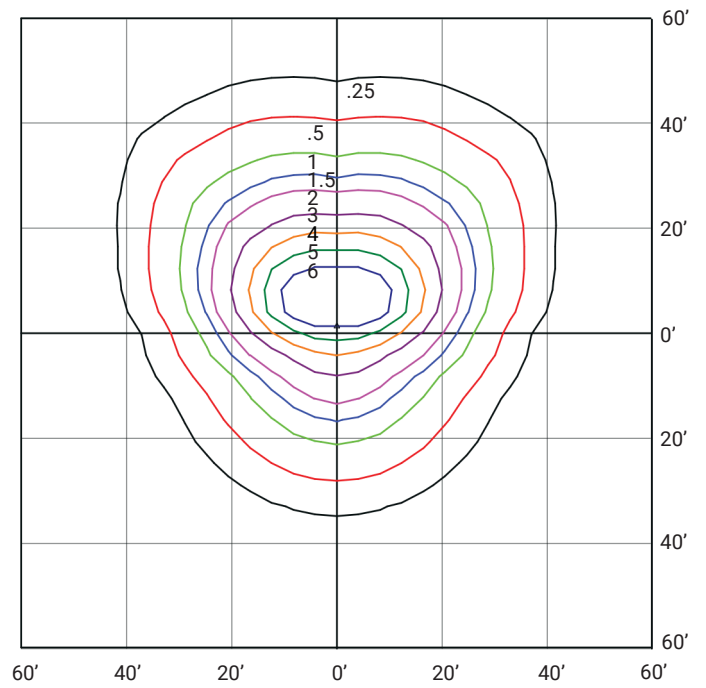### SKY2S-LED80A40-H-VK-SD-BLK-DIM-PLM-SP10 (80W 120V 4K) MOUNTED AT 20 FEET

LUMENS 11181   MAX CALCULATED VALUE 4.58 Fc

SKY2S-LED80A40-H-VK-WA-BLK-DIM-PLM-SP10 (80W 120V 4K) MOUNTED AT 20 FEET

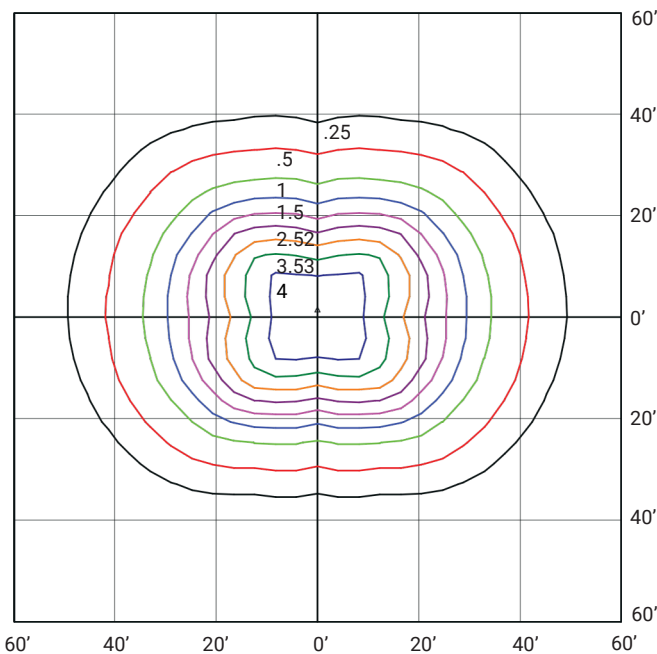LUMENS 10125   MAX CALCULATED VALUE 7.15 Fc

SKY2S-LED80A40-H-VK-EH-BLK-DIM-PLM-SP10 (80W 120V 4K) MOUNTED AT 20 FEET
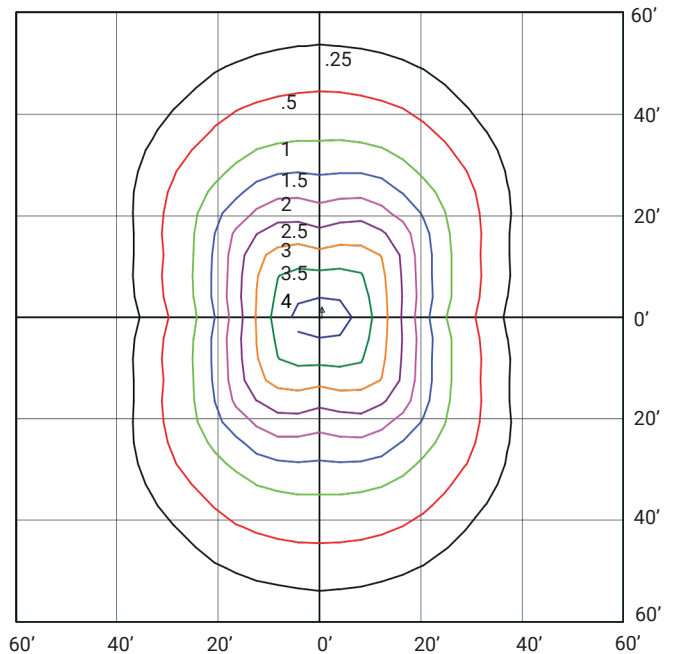
LUMENS 10357   MAX CALCULATED VALUE 4.46 Fc

SKY2S-LED80A40-H-VK-EV-BLK-DIM-PLM-SP10 (80W 120V 4K) MOUNTED AT 20 FEET

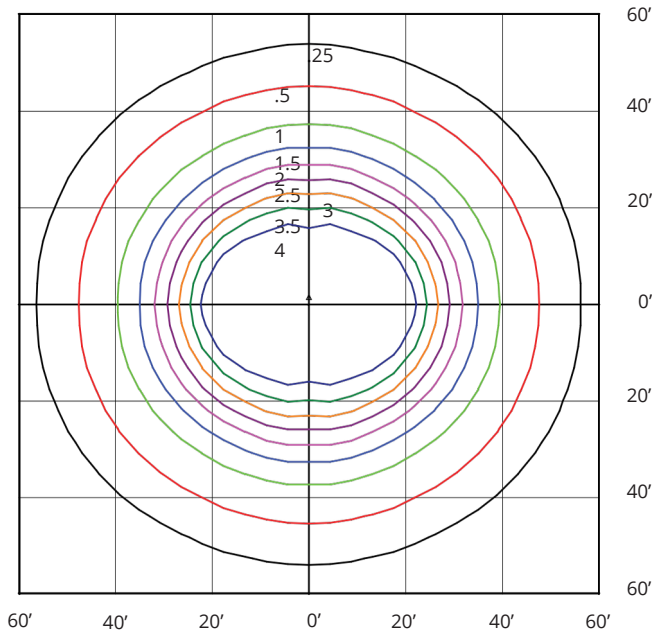LUMENS 10461   MAX CALCULATED VALUE 4.23 Fc

SKY2S-LED150A100-H-VK-SD-BLK-DIM-PLM-SP10 (150W 120V 4K) MOUNTED AT 20 FEET
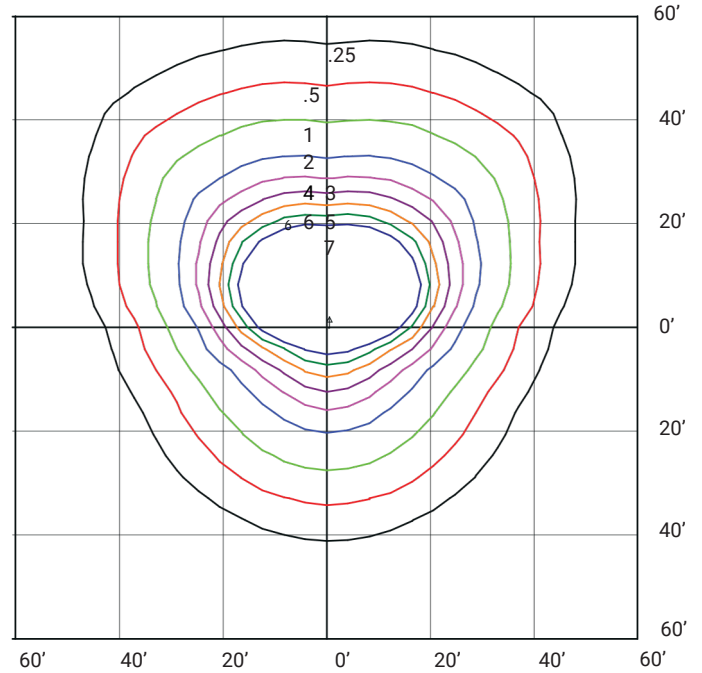
LUMENS 17362   MAX CALCULATED VALUE 5.65Fc

SKY2S-LED150A100-H-VK-WA-BLK-DIM-PLM-SP10 (150W 120V 4K) MOUNTED AT 20 FEET

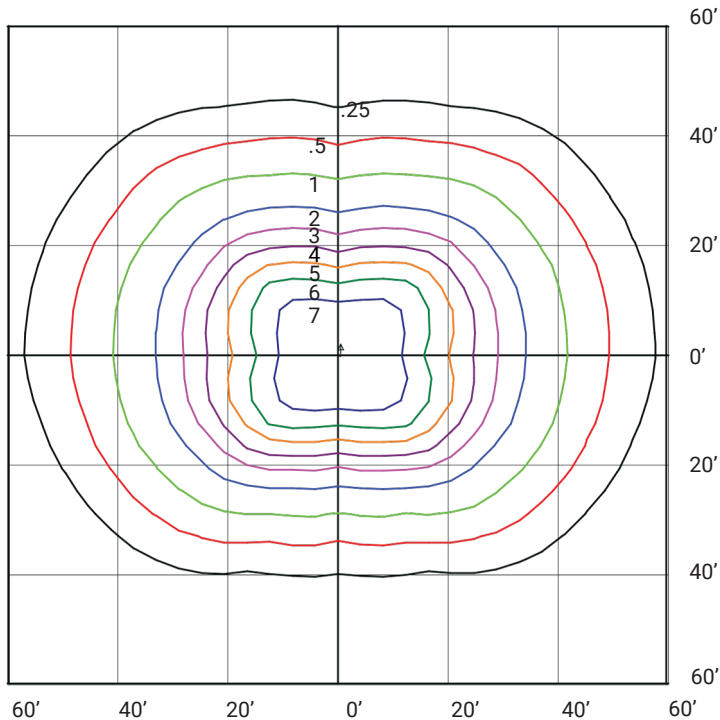LUMENS 18799   MAX CALCULATED VALUE 13.53 Fc

SKY2S-LED150A100-H-VK-EH-BLK-DIM-PLM-SP10 (150W 120V 4K) MOUNTED AT 20 FEET
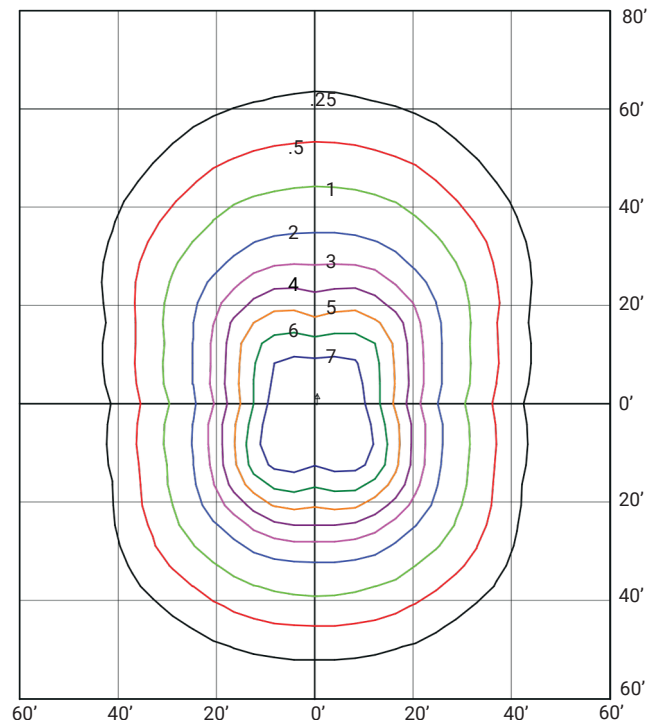
LUMENS 19939   MAX CALCULATED VALUE 8.41 Fc

SKY2S-LED150A100-H-VK-EV-BLK-DIM-PLM-SP10 (150W 120V 4K) MOUNTED AT 20 FEET

LUMENS 19547   MAX CALCULATED VALUE 8.46 Fc

PHOTOCELL/CCT/LUMEN SENSOR (PCLS)

PCLS Controller allows the Installer to adjust colour temperature, brightness, and photocontrol settings using a remote control after installation.

SPECIFICATIONS	
INPUT POWER	LED INPUT : MAX . 250VDC 3A; SENSOR INPUT: 10-14VDC, >30MA
SINKING CURRENT	MAX. 25MA
CONTROL OUTPUT	0-10V OUTPUT SIGNALS
POWER CONSUMPTION	MAX.0.5W
OPERATE LEVEL	10-20LUX ON, 30-80LUX OFF
AMBIENT TEMPERATURE	99%RH
OPERATING TEMPERATURE	-40° F- +158° F (-40°C- +70°C)

FUNCTIONS

PHOTOCELL	CCT	LUMEN
When the ambient light is above set lux values, fixture will not switch on. When the ambient light is below set lux values, fixture will switch on.	Choose between 4000K/5000K	Light levels can be dimmed up or down by increments of 10% Light levels can be lowered to 50% after specified time period for improved energy savings.

RC107 REMOTE SPECIFICATIONS
(FOR PCLS CONTROLLER)

DEFAULT FACTORY SETTING	
TASK LIGHT LEVEL	100%
HOLD TIME	DISABLE
PHOTOCELL	LOW
CCT	CCT LOW (NW - 4000K)

FEATURES	
	ON: Turn on the fixture, the brightness is according to the task level you set. **OFF:** Turn off the fixture, the fixture is permanently off. **RESET:** Task Light Level:100%; Hold Time: Disable; Photocell: Low; CCT:CCT Low (NW - 4000K) **REPEAT:** Send the same setting to different fixtures installed.
	DIM+: With each push of the button, brightness increases by 10%. **DIM-:** With each push of the button, brightness decreases by 10%;
	Select the task brightness of the fixture as needed.
	HOLD TIME: The "hold time" starts to count right after the fixture turns on. When the "hold time is up, the fixture adjusts to 50% brightness until the light control turns the light fixture off. **DISABLE:** When you choose disabled, the fixture maintains the task light level
	LOW: When the ambient lux is less than 30lux, the fixture turn on at the task level you set, when the ambient lux is more than 50lux, the fixture turns off. **MIDDLE:** When the ambient lux is less than 80lux, the fixture turn on at the task level you set, when the ambientent lux is more than 100lux, the fixture turns off. **HIGH:** When the ambient lux is less than 150lux, the fixture turn on at the task level you set, when the ambient lux is more than 180lux, the fixture turns off; **DISABLE:** Photoelectric switch disabled:
	CCT : Adjust CCT(WW - 4000K, CW - 5000K)

Note: Custom settings can be done based on requirements in the Factory.

DIMMING HIGH FREQUENCY MOTION SENSOR (DHFS)

DHFS Microwave motion sensor offers a range of control features based on motion detection allowing the Installer to adjust the brightness of the fixture, hold time and daylight settings using a remote control after installation.

SPECIFICATIONS	
POWER SUPPLY	12V-24V DC
HIGH FREQUENCY SYSTEM	5.8GHZ +/-75MHZ
DIM CONTROL OUTPUT	0-1 0V, MAX. 25MA SINKING CURRENT
DETECTION RADIUS/ANGLE	MAX 26FT (8M)/360°
MOUNTING HEIGHT	MAX 40FT
REMOTE RANGE	50FT. (15M) INDOOR, NO BACKLIGHT
HUMIDITY	MAX. 95% RH
TEMPERATURE	-40°F - 158° F (-40°C- 70°C)

SENSOR COVERAGE
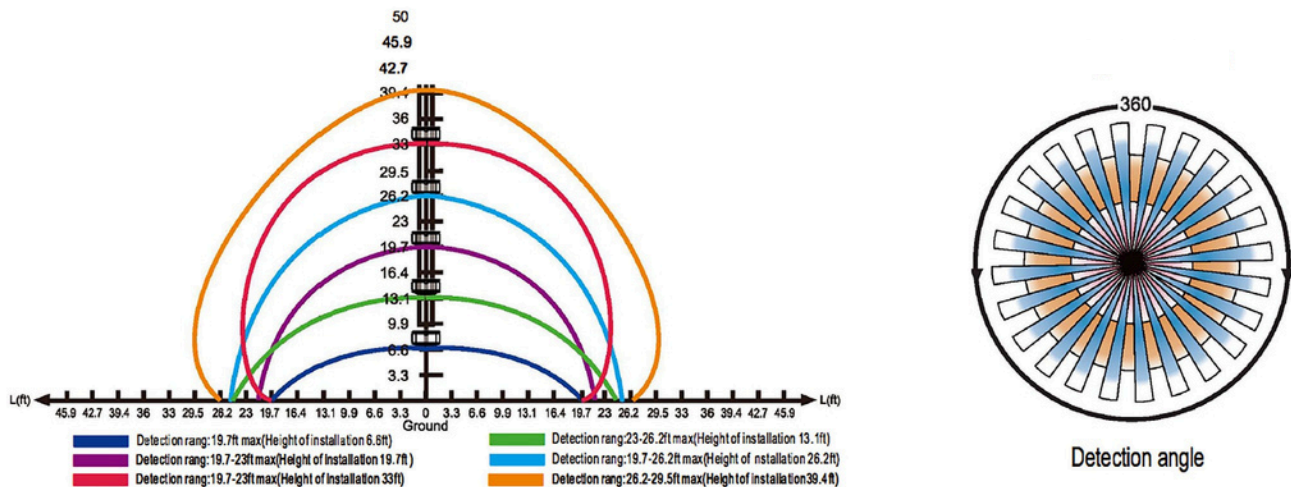
Detection Range: Ex. If the mounting height is at 30ft, it will cover a 25ft radius.

RC100 REMOTE SPECIFICATIONS
(FOR DHFS CONTROLLER)

DEFAULT FACTORY SETTING	
BRIGHTNESS	100%
SENSITIVITY	100%
HOLD TIME	5 MINS
DAYLIGHT SENSOR	☼
STAND-BY DIM	30%
STAND-BY TIME	60 MINS
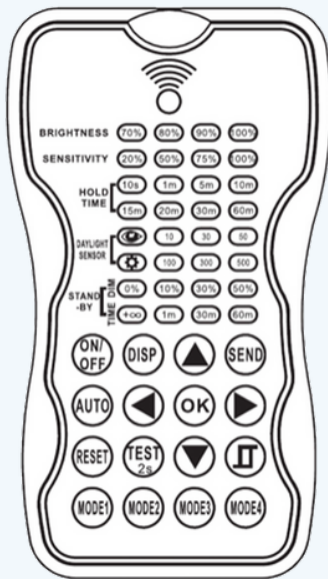
| FEATURES	
	BRIGHTNESS: Sets the highest light fixture brightness when motion is detected.
	SENSITIVITY: Sets the sensitivity to which the sensor will detect motion.
	HOLD TIME: The time the light fixture will remain at the brightness setting after it detects motion.
	DAYLIGHT SENSOR: The lux setting that the light fixture will turn on/off. If the ambient lux is more than the defined lux setting, the fixture & sensor function will turn off and remain off until the ambient lux is below the setting. To disable the lux sensor, select the SUN icon. To set the lux to match current room conditions, select the EYE icon.
	STAND-BY DIM: The Dim level that the light fixture will dim down after the Hold Time has expired. To disable dimming and only have ON/OFF, select the 0% icon.
	STAND-BY TIME: The time the light fixture will remain in the dim down state before it shuts off. To disable the light from shutting off, select the INFINITY icon.

RC100 REMOTE CONTROL SPECIFICATION	
POWER SUPPLY	2 x AAA 1.5V Batteries
COMMUNICATION PROTOCOL	940 nm IR Tx & Rx
COMMUNICATION RANGE	Up to 15m (50 ft)
OPERATING TEMP	0 °C to 50°C (32°F to 122°F)
DIMENSIONS	123x70x20.3mm (4.84"x2.76"x0.8")

CONTROLLED

RAB DESIGN ®

ControlLED Network Lighting Controls (NLC) delivers secure, wireless lighting management with Bluetooth Mesh and the ControlLED App. Integrated sensors enable automatic adjustments for comfort, safety, and efficiency.
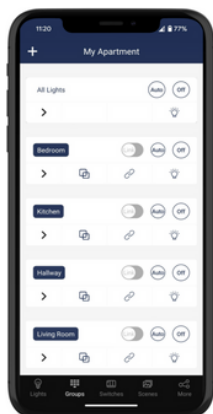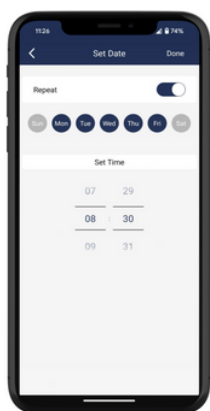
Organized Workspaces:
Create Zones, Groups and Group linkages.

Dimming Lights:
Set dim level for groups or individual lights.

Scenes:
Create custom scenes for different scenarios.

Schedules:
Create custom schedules for recurring events.

Share Access:
Share access using QR codes.

Get the App!

GET IT ON **Google Play**

Download on the **App Store**

BLUETOOTH CONTROL

FEATURES
- Bluetooth mesh network
- DLC - Networked Lighting Control (NLC) & Luminaire Level Lighting Control (LLLC)
- Group and Individual fixture dimming
- Scenes & Schedules

SPECIFICATIONS	
Input Voltage	12 VDC
Input Current	Min 150mA
Output Current	10mA Max.
Dimming	Class 2, 0-10 VDC
Bluetooth Transmit	860ft Max.
Radio Frequency	2.4GHz ±75MHz
Bluetooth Version	5.0

RAB DESIGN ® **Engineered by skilled hands, for skilled hands.**